

MATERIAL SAFETY DATA SHEET

DDM948

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

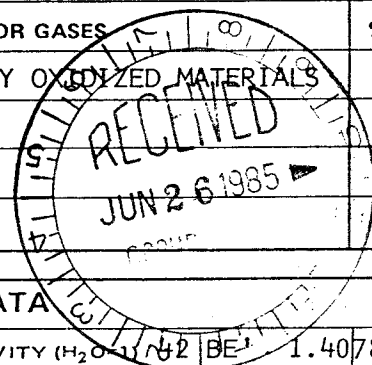
SECTION I

MANUFACTURER'S NAME COLLIER CARBON AND CHEMICAL CORPORATION		EMERGENCY TELEPHONE NO. 213 486-7170
ADDRESS (Number, Street, City, State, and ZIP Code) UNION OIL CENTER 1231 WEST FIFTH STREET, LA, CA., 90017		
CHEMICAL NAME AND SYNONYMS NITRIC ACID		TRADE NAME AND SYNONYMS NITRIC ACID
CHEMICAL FAMILY INORGANIC ACIDS	FORMULA HNO ₃	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES NITRIC ACID 42 BE'	67.18	2	OTHERS		
OTHERS					

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
DO NOT MIX WITH HYDROCARBONS, WOOD OR OTHER EASILY OXIDIZED MATERIALS		



SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	186.9 F 68.5%	NH ₃	SPECIFIC GRAVITY (H ₂ O = 1)	1.4078
VAPOR PRESSURE (mm Hg.)			PERCENT, VOLATILE BY VOLUME (%)	
VAPOR DENSITY (AIR=1)			EVAPORATION RATE (_____ = 1)	
SOLUBILITY IN WATER	SOLUBLE			
APPEARANCE AND ODOR COLORLESS TO LIGHT BROWN, ACRID ODOR				

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	NONE	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA	NONE			
SPECIAL FIRE FIGHTING PROCEDURES	NONE			
UNUSUAL FIRE AND EXPLOSION HAZARDS				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

2 PPM (IN VAPOR)

EFFECTS OF OVEREXPOSURE

SEVERE CHEMICAL BURN UPON CONTACT WITH SKIN OR EYES

CHRONIC BRONCHITIS MAY RESULT FROM CONTINUED INHALATION OF VAPOR ABOVE TLV

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: IRRIGATE WITH LARGE AMOUNT OF WATER AND GET MEDICAL ATTENTION

SKIN OR MUCUS MEMBRANE CONTACT: REMOVE CONTAMINATED CLOTHING. FLUSH WITH PLENTY OF WATER

INHALATION: REMOVE TO FRESH AIR. GET MEDICAL ATTENTION. INGESTION: DRINK LARGE AMOUNT OF WATER GET MEDICAL ATTENTION

SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

STABLE

X

CONDITIONS TO AVOID
KEEP AWAY FROM REDUCING AGENTS

REACTION WITH WOOD MAY CAUSE FIRE

INCOMPATIBILITY (Materials to avoid)

WITH AROMATIC HYDROCARBONS, ALCOHOLS, GLYCEROL, ETC.

HAZARDOUS DECOMPOSITION PRODUCTS

OXIDES OF NITROGEN (NO, NO₂, N₂O ETC.)

HAZARDOUS
POLYMERIZATION

MAY OCCUR

WILL NOT OCCUR

X

CONDITIONS TO AVOID

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

DILUTE WITH LARGE QUANTITIES OF WATER

WASTE DISPOSAL METHOD

DILUTE AND NEUTRALIZE BEFORE DISPOSAL.

DO NOT FLUSH DOWN DRAINS WHERE ACID WILL POLLUTE STREAMS.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)
CHEMICAL CARTRIDGE RESPIRATOR, CANNISTER MASK, SELF CONTAINED BREATHING APPARATUS, ETC.

VENTILATION
TO KEEP CONCENTRATION
BELOW 2 PPM

LOCAL EXHAUST

TRATION

MECHANICAL (General)

SPECIAL

OTHER

PROTECTIVE GLOVES

RUBBER

EYE PROTECTION

CHEMICAL SAFETY GOGGLES

OTHER PROTECTIVE EQUIPMENT

RUBBER APRONS MAY BE NEEDED

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

REFER TO MANUFACTURING CHEMISTS ASSOCIATION, CHEMICAL SAFETY DATA SHEET SD-7

OTHER PRECAUTIONS